

13 15 20 21 23 38 13 223 B6 105 1106 JFK JFK 50 25 223 B6 1105 906 45 25 223 B6 311 312 35 35 73H 45 36 14 223 B6 111 1012 14 54 223 B6 1711 1712 12 52 223 B6 1011 112 59 223 223 M M27 B777-200LR,-300ER (212.6) AS 3066A 3066D 412 BOS BOS PDX PDX BOS BOS ۲₇₃₉45 0 55 73H 35 30 10 739 20 35 50 321 AS 138 321 AS 22 739 AS 26 SEA M M26C A321NEO (117.4 AS 27 139 21 A\$ 10141013 AS 12041203 ANC ANC SEA SEA SFO SFO SEA SEA M M26B B777-200LR,-300ER (212.6) 35 30 40 10 739 E75 AS 12321245 3480 LAX LAX PDX 35 25 30 321 AS 34 739 73H M M26A A321NEO (117.4 AS 1206 1201 AS 1010 1011 AS 686 687 51 SFO SFO SEA PDX PDX SEA LAX LAX 32B 55 46 39 32A 50 46 32A NK 728 745 26 20 32B NK 773 245 23 31 32B NK 948 968 19 19 32B NK 500 457 40 32B 32B 32B 32B 32B M M25C A321NEO (117.4) NK NK 478 121 224 NK 940 927 NK 730 NK 331 LGA NK 456 815 731 DFW BOS LAS FLL FLL DFW BWI LAS LAX M M25B B777-200LR,-300ER (212.6) 29 59 32B NK 356 LAS 20 20 32B NK 446 425 32 22 32A 32B 46 59 32B 18 32B NK 912 32B 32B M M25A A321NEO (117.4) NK 357 NK 200 595 NK 206 708 NK 872 209 NK 124 295 853 ĻAS ΙΑΗ OAK OAK RSW IAH MCO M M24B B777-200LR,-300ER (212.6) 1 32B 49 33 33 32B NK 624 563 119 47 50 32A NK 992 441 20 53 32A NK 842 32B NK 969 32A 32A NK 369 **BVVI** M M24A A321NEO (117.4) NK 249 893 NK 847 847 221 M\$Y SEA DEN SAN L¢A DEN JAX BWI ATL 15 15 32A NK 3070A 3070D 39 59 32B 32B 32A 32A M M23 B777-200LR,-300ER (212.6) NK 442 843 NK 630 630 NK 564 903 NK 762 DEN SEA MYR DTW DTW SAN DFW 20 321 20 45 50 36 32A NK 176 179 50 40 32A 15 20 32B 7M9 7M9 M M22C A321 NEO (117.4) NK 3∠ I F9 3069A 3069D 737 AM 652 653 AM 3075A 3075D NK 856 855 LAS LAS LAX GDL GDL RDU RDU M M22B A380-800 (261.7)

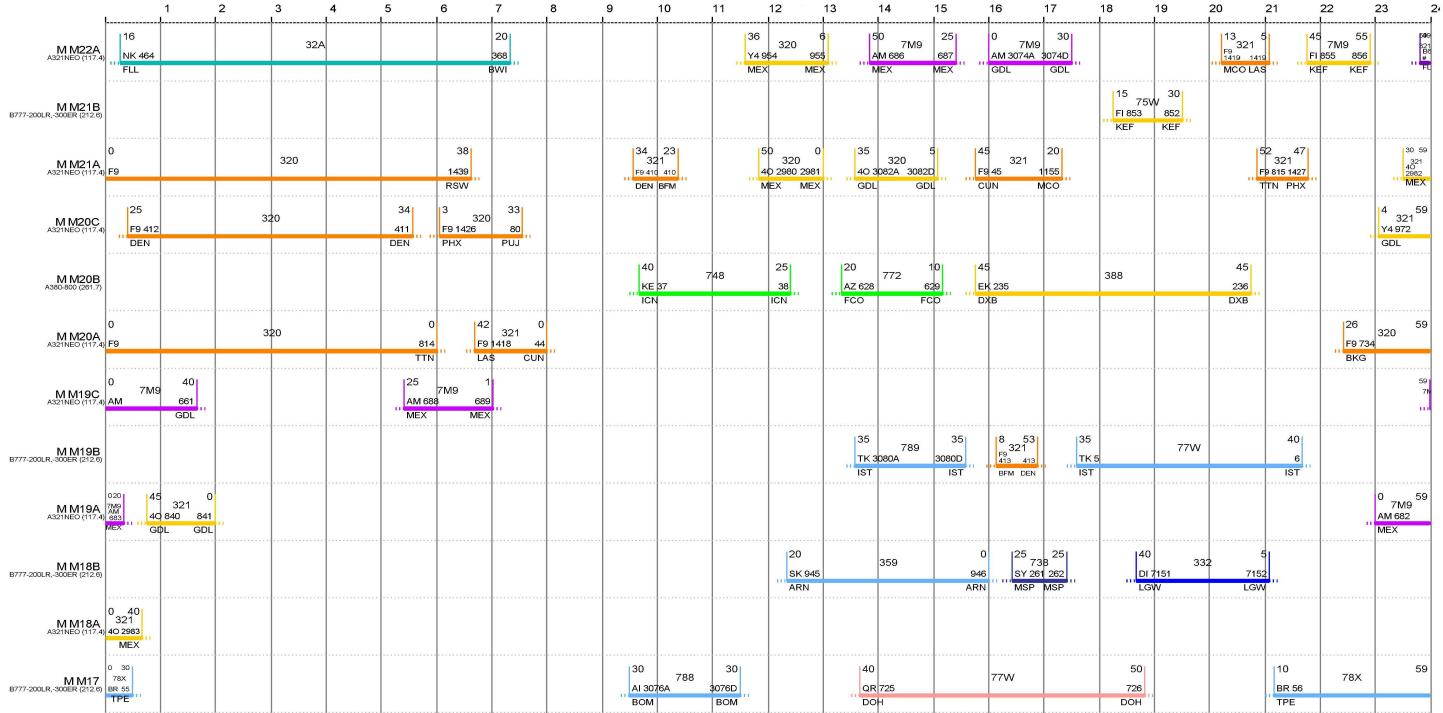
SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (1 OF 22)

Ramp Charts

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SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (2 OF 22)

Ramp Charts

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13 20 23 24 20 20 789 359 M M16 B747-800 (224.6) HU 2307A 2307D SK 943 CPH CPH PEK 25 30 77W 787 M M15 B777-200LR,-300ER (212.6) AI 127 126 RJ 263 264 DEL AMM AMM 30 30 35 789 789 789 M M13 B747-800 (224.6) ET 510 511 LO9 LO 3 фuв ADD KRK WAW WAW WAW 15 15 320 F9 3068A 3068D 55 20 773 35X M M12 B777-200LR,-300ER (212.6) MU 255 256 OZ 236 235 мсо мсо ICN 41 31 320 5 59 320 M M11 A380-800 (261.7) TP 229 F9 81 F9 1438 735 RSW BKG LIS PUJ LIS 40 20 10 25 35X 779 M M10 B777-200LR,-300ER (212.6) 807 CX 806 EY 151 150 AUH AUH 15 30 359 789 789 M M9 B777-200LR,-300ER (212.6) CA 3077A 3077D DY 7155 7156 DY 3083A 3083D PEK BCN BCN 789 **M M8** B777-200LR,-300ER (212.6) 612 AF 136 KL 611 CDG 739 35 35 15 738 41 25 738 DL 1958 1958 52 32 738 DL 2112 22 32N 20 14 59 739 _{DL} _{972 972} 35 M M7C A321NEO (117.4 DL 3067A 3067D DL 1480 DL 2424 2424 ATL ATL M M7B B777-200LR,-300ER (212.6) 11 46 E7W ^{DL} # # 54 30 E7W 56 31 CR9 DL 6210 6218 4 40 E7W 12 50 E7W 59 M M7A Embraer-170 (95 E7W E7W 3530 DL 3891 JFK JFK |54₂₂₃45| 15 59 739 DL 2183 2183 13 59 738 DL 1567 1567 44 25 223 DL 303 737 31 10 223 DL 2818 1734 59 223 223 M M6 A321NEO (117.4) DL 306 DL 329 LGA SLC SLC ATL ATL

EXHIBIT 1-4 (3 OF 22)

Ramp Charts

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13 15 19 20 21 23 24 M M6W 747-100,-200,-300,-400 (212) 223 45 10 40 CRJ DL # # 7 45 221 DL 3492 3331 19 59 221 DL 626 626 51 30 223 DL 6271777 56 45 223 30 223 223 M M5 A321NEO (117.4) DL 479 DL 1123 1045 DL 1812 ATL LGA LGA LGA ATL JFK JFK 9 55 320 DL 2359 2359 55 35 320 CR7 DL # # 223 DL 3044 2931 739 223 223 223 M M4 A321NEO (117.4) DL 2591 DL 877 1097 DL 3027 ртw ATLDTV LGA LGA LGA LGA LGA LGA ATL LGA 15 50 221 DL # 22 1 223 DL 2859 2859 MSPMSP 2 46 738 59 45 223 DL 338 1409 59 8 30 221 56 45 CR7 DL # # 223 223 M M3 A321NEO (117.4) DL 313 DL 2037 LGA LGA LGA LGA LGA ATL ATL 39 5 CRJ DL # # 15 50 CR9 DL 5086 5086 16 0 739 DL 2809 2809 33 (CR9 DL 5279 3318 53 45 223 DL 305 333 28 10 CR9 DL 6209 6209 59 223 E7W 223 M M2 A321NEO (117.4) DL DL 301 LGA DL 746 2306 LIGA LGA BOS ATL ATL 223 45 A 739 15 55 320 11 50 CR9 DL 6287 6287 37 2 32 22 739 739 739 E7W M M1E A321NEO (117.4) 691 DL 2737 977 DL 486 3049 DL 2736 DL 502 2306A ATL SLC SEA SEA SEA ATL SEA M M1D Embraer-170 (85.33) 34 25 738 25 0 CR9 DL 3478 5547 JFK JFK 36 45 223 DL 2511 379 37 35 320 DL 2235 2235 10 50 319 DL 1264 2596 19 59 320 DL 669 669 20 319 59 320 320 M M1C A321NEO (117.4) DL 2917 DL 1726 SLC ATL ATL MSPMSP DTWDTW 10 50 CNC 3E 55 CNC 55 20 10 CNC 3E 2106 2107 M M1B Cessna 208 (52.08 3E 2620 2623 3E 2634 2625 3E 2805 2105 ₿RL BRL **W**M MCW MCW BRL BRL 0 50 _CNC 22 50 23 30 CNA 51 46 CNA 25 10 25 CNC 1 CNA CNA 9K # # DIDEC M M1A Cessna 208 (52.08 9K 1533 1527 9K 1528 1529 3E 2104 2804 9K 1526 1532 IWD IWD DEC DEC DEC DEC DEC DEC CR7 29 5 47 ER4 44 21 CR7 AA 4005 3603 55 CR7 5 CR9 L L27 Embraer-170 (85.33) E75 AA 4143 AA 4126 3947 AA 3026 3264 FSD ROC CLE RIC SDF TVC HSV SCE 24 15 319 AA 751 2896 L L27A A321NEO (117.4

EXHIBIT 1-4 (4 OF 22)

Ramp Charts

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13 15 21 23 24 20 |40 | CR7 10 50 CR7 15 1 E75 AA 4156 368 17 0 E75 CR7 CR7 L L26 Embraer-170 (85.33) AA 4084 3501 AA 3021A 3021E AA 3031 3172 3372 3762 FNT ONA DAY COU CR7 55| 5 35 CR7 AA 3098 RAP 30 25 CR7 AA 3018A 3018D 40 29 E75 AA 4051 3388 58 59 CR7 16 10 E75 AA 4036 4082 55 51 E75 L L25 A321NEO (117.4 AA 3225 3075 AA 3351 3467 AA 3240 3255 ROA ROA IND CVG |40 | CR7 10 55 CR9 AA 3219 3217 32 29 CR7 11 AA CR7 CR7 CR7 CR7 L L24 Embraer-170 (85.33 AA 3174 3101 AA 4052 3587 AA 3277 3299 AA 3276 3084 MLI ER GRR BDL DSM BNA FWA DTW ABE CVG RI¢ FWA RIC GRR 13 53 CR7 24 54 CR7 AA 3453 14 CR7 58 40 CR7 14 CR7 AA 3218 3158 CR7 E75 L L23 Embraer-170 (85.33 AA 3781 4051 AA 3757 3731 4009 3414 DAY MSN BUF GRB CLE DTW 22 52 CR7 AA 4190 MSP 26 56 CR7 AA 4067 4 45 CR7 AA 4076 3619 59 50 ,,CR9 36 29 CR7 AA 3062 2993 L L22 Embraer-170 (85 20) CR7 E75 3739 AA 3388 3591 LSE LSE FNT CLE ICT YUL SDF GSO 59 44 CR7 AA 3739 3336 MEM MDT 40 36 CR7 AA 31783061 35 CR7 36 21 CR7 AA 3036 3019 7 55 CR7 AA 3138 3267 34 21 CR7 AA 2952 3145 114 59 E75 CR7 AA 3031 DAY L L21 Embraer-170 (85.33 AA 4199 AA 3589 3682 BNA TVC TUL BNA TVC MHK ORF SDF GRR OKC BNA 45 35 CR7 AA 3074 2953 5 45 E75 4 CR9 55 12 57 CR7 AA 3336 3895 33 25 CR7 AA 3253 3157 29 CR7 L L20 Embraer-170 (85.33) AA 4104 3420 CID SAV CLE BTV DKC |21 CR7 13 0 CR7 AA 3951 3786 GRR LIT 32 20 CR7 AA 3189 2984 28 CR7 30 4 55 CR7 CR7 L L1 Embraer-170 (85.33 AA 3176 2975 AA 3908 3929 AA 3875 3650 3328 3364 PIT LIT TVC сои ртw I²⁴ CR7 |22 CR9 12 57 E75 ^{AA} 3207 3044 5 0 CR7 AA 3017A 3017D 126 dR7 L L3 Embraer-170 (85.33 AA 3005 3087 AA 3629 3394 AA 4197 4067 CAE CAE RST ALB COS SUX TVC 1' E75 ⁵¹ 6 46 CR7 20 CR7 14 54 CR7 E75 AA 3056 3029 CR7 **L L5** Embraer-170 (85.33) E75 AA 4138 3886 AA 3414 4215 3959 AA 3639 3949 3686 3581 DSM MQT PWM YYC CR7 47 بر _{E75} 55 40 35 CR7 AA 3004A 3004D 55 38 E75 CR7 **L L7** Embraer-170 (85.33) AA 3920 4075 AA 3016 3059 AA 3949 3578 AA 3423 3348 3233 2952 GRB LEX RST DTW FNT нри окс YYC XNA 16 CR9 21 8 50 CR9 AA 3017 3082 35 10 CR7 AA 3927 3678 0 51 CR7 _{AA} 2970 3064 L L9 Embraer-170 (85 20) E75 CR7 E75 CR7 AA 3729 4064 AA 2981 3002 AA 4045 4098 AA 3581 349 AA 3438 3979 DTW CLE ASE TYS DΒΦ GSP LEX HPN

EXHIBIT 1-4 (5 OF 22)

Ramp Charts

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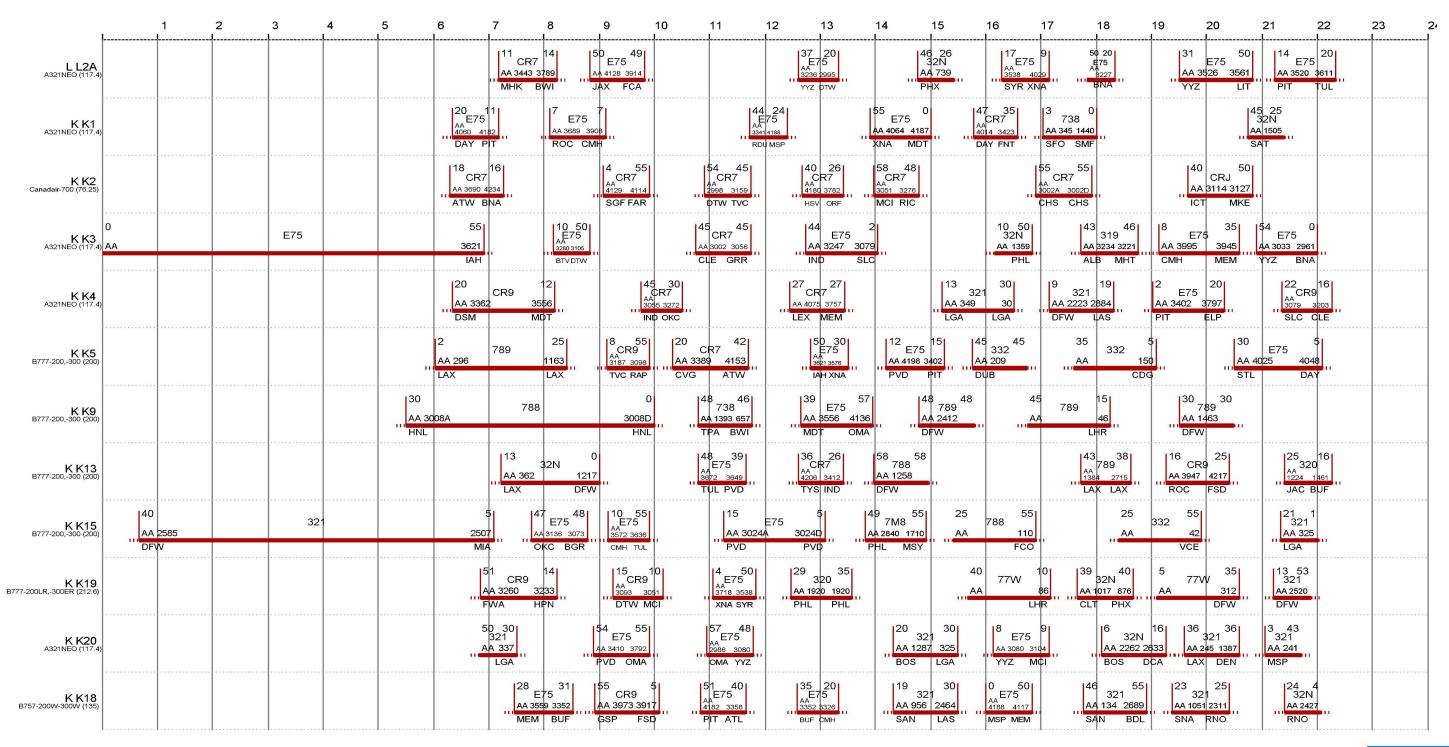


15 19 23 24 13 20 21 ∠ə 55 CR7 44 28 ER4 ^{AA} 3473 3857 38 36 CR7 AA 4113 3522 43 32 CR7 AA 3159 3240 CR7 AA 3210 3025 CR7 CR7 L L11 Embraer-170 (85.33) AA 35843755 AA 3224 3205 AA 3126 3124 AA 3104 3083 MHT ALB CID CMI CID FSD YUL MCI TV¢ 34 10 CR7 AA 3112 3113 MEIMKE 1 31 E75 AA 3073 30 25 CR7 AA 3401 3913 16 CR7 45 E75 25 CR7 ER4 CR7 L L13 Embraer-170 (85.33) AA 3518 3626 AA 3356 3409 AA 3273 3177 AA 39153744 3412 334 MLI GRB RIC LAN IND ML EVV \$GF OKC MISN 52 27 ER4 AA 4087 4014 22 1 , ER4 ER4 ER4 ER4 L L12A mbraer-135,-140,-145 (65.75) AA 4218 338 AA 4205 3533 AA 3766 4091 YS MSN BWI 13 55 ER4 48 26 ER4 ^{AA} 3477 4171 30 15 AAER4 ER4 ER4 L L12B mbraer-135,-140,-145 (65.75) AA 3661 AA 3640 3814 AA 4125 3415 AA 3926 4123 3806 102 4163 GSD COU SDFLEX DLH GRR TOL 39 39 CR7 14 5 CR7 AA 3434 3360 ORF SGF 45 E75 17 (CR7 AA 3315 335 54 45 CR7 59 24 E75 L L10C Embraer-170 (85 22) CR7 AA 3959 3950 AA 3186 2998 AA 3804 AA 35763365 LIT IND IND SLC СМН LAN TVC XNA PVD ER4 43 |40 _{E75} |9 _{E75} ' 45 E75 58 42 CR7 16 56 E75 L L10B A321NEO (117,4 AA 34753725 AA 3075 3278 AA 3023 3072 SĠF STL BUF SYR RST ER4 25 ²⁰CR7 ⁴ E75 25 21 CR7 CR7 L L10A Embraer-170 (85.33 AA 3648 3356 AA 3759 4059 AA 3619 3370 AA 2973 3201 AA 30193253 TVC BTV GSO DSM 15 44 E75 20 CR7 44 24 ER4 AA 3738 3328 16 10 CR7 AA 4193 3994 52 31 ER4 ER4 L L8 Embraer-170 (85.33 AA 3858 3507 AA 3598 4084 556 3330 CID FNT LIT MSQ SDF SCE RIC LSE 4 34 E75 AA 3033 9 55 E75 AA 3416 3341 40 30 CR7 AA 3118 3126 28 135 L L6B Embraer-170 (85 ac) CRJ E75 E75 AA 3476 3746 AA 3880 3785 AA 3122 3116 IND RDU 54 40 CR7 CR9 55 140 12 CR7 36 E75 AA 3636 363 **L L6A** Embraer-170 (85.33) ER4 E75 AA 4069 4236 AA 4187 3426 AA 3788 3369 3135 3273 CWA AZO BNA OKC FAR CLE MDT 25 CR7 AA 3110 3111 36 30 E75 AA 3087 2991 14 57 E75 8 ...CR7 116 59 CR9 E75 L L4 Embraer-170 (85.33 AA 3865 4190 AA 4136 3730 AA 4117 4220 4112 OMA MDT MDT GRR BNA RAP SDF MEM BUF JAX сно сно MSP MSNGSP 4 45 CR7 AA 3525 4154 49 44 CR7 AA 3600 35 20 E75 AA 3635 3346 25 1 CR7 AA 3040 31 20 1 CR7 AA 4099 42 32 15 CR9 AA 3267 3191 128 50 L L2C Embraer-170 (85.20) E75 E75 ¢R9 AA 3453 4049 AA 3746 348 AA 4120 3756 внм м∉м CHS JAX GRR XNA IAH ₿DL BMI GRB DSM ATW

SOURCE: Ricondo & Associates, Inc., December 2019. **EXHIBIT 1-4 (6 OF 22)**







SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (7 OF 22)

Ramp Charts

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13 15 19 21 23 24 10 20 23 50 19 59 32N 57 37 E75 50 20 30 32N 32N E75 359 359 K K16 B777-200LR,-300ER (212.6) AA 4050 3892 AA 852 2180 EI 123 122 830 EI 125 124 AA 168 JFK DUB DUB DFW DUB LAS 26 6 CR9 AA 3522 4009 30 35 39 321 32N 788 789 32N K K12 B777-200,-300 (200) 2723 AA 160 AA 1022 1691 AA 789 AA 1639 AA 2513 1356 3029D MSY ABQ мсф SJC 10 50 E75 E75 321 E75 E75 321 32N 321 32N K K10 A321NEO (117.4 AA 885 57 AA 3567 4198 AA 129 AA 1557 2456 AA 3792 3526 AA 1779 1062 AA 1029 2786 3399 4199 3707 4156 LGA OMA PVD TPA LA\$ CMH TUL SLC ATL LAX LAX 30 10 32N 33 ST 31 32N 20 56 40 E75 33 30 32N 18 59 32N CR9 32N 32N K K8 A321NEO (117.4 AA 451 AA 3534 3686 AA 367 1464 AA 660 1534 AA 891 AA 1477 869 AA 3838 3999 AA 2488 2506 8044 2977 PHX ROC ROC CVG LGA TPA COS SDF BZN CLT PHL |12 _{E75} | 59 32N 32N 321 32N 32N E75 7M8 K K6 A321NEO (117.4) AA AA 1304 AA 3057 3236 AA 370 2680 AA 657 2826 AA 3725 3485 328 AA 2258 168 AA 1650 260 AUS DĦW LGA SAN LSE LAS CLT PHI BWI 321 59₁ ⁵⁹ 32N 119 21 29 15 30 35 321 32N 321 32N 32N 32N 32N H H9 A321NEO (117.4 AA 2503 1251 2847 AA 1253 367 2228 AA 2457 AA 2721 2634 AA 1924 1475 AA 1313 1308 AA 1162 1172 AA 1312 SFO MIA RSW MIA MCO SFØ LGA MCI AUS BOS TUS BOS LGA I¹⁰ 321 40 20 7M8 AA 2411 28 32N 134 411 738 32N 32N 32N ^{*}32N ` H H11A A321NEO (117.4) AA 2428 AA 145 1375 AA 256 256 AA 2407 922 AA 1329 2247 AA 1431 2427 AA 2304 105° MCO DCA SNA ABQ RNO LAS SJU PDX I¹⁹ 321 32N 7M8 32N 32N 321 7M8 32N H H11B B757-200W-300W (135) AA 2302 2398 AA 1003 2384 349 AA 1136 2095 AA 1475 1485 AA 615 2529 AA 1442 1103 AA 3010A 3010D LGA MCI LGA PHX MCC 30 118 25 55 126 43 30 32N 32N 32N 32N 32N 7M8 738 H H15 B777-200,-300 (200) 2215 AA 226 AA 2470 241 AA 1509 866 AA 1049 1239 AA 1629 2321 AA 33 2576 AA 883 357 CLT EWR BOS PHX LGA OAK BOS PHX DEN MSF 32N 32 ⁵⁹ 738 20 20 0 32N 33 30 23 3 738 32N 7M8 32N H H17 A321NEO (117.4 AA 1854 AA 2358 2820 AA 337 AA 773 AA 1414 2682 AA 583 AA 1668 1668 AA 2264 583 CLT PHL CLT | CLT TUS BDL LGA RDU BOS CL DEN ATL JFK BOS 35_N 35_N 6 46 7M8 45 25 32N 20 32N 32N 738 7M8 H H18 AA 1495 AA 2843 2639 AA 1883 1568 AA 1834 1941 AA 490 2097 AA 30 AA 2211 335 MIA CLT SNA EWR SM₽ SFO PHL PHL PHX 32N 25| |55 _{7M8} 21 7M8 25 55 7M8 738 32N 32N 32N 32N H H16 A321NEO (117.4 AA 1969 960 1784 AA 1949 2052 AA 816 2503 AA 1332 942 AA 115 1488 AA 357 1039 AA 1598 2346 AA 1553 MCI AUS MIA RDU MCI LGA CLT SNA

SOURCE: Ricondo & Associates, Inc., December 2019. **EXHIBIT 1-4 (8 OF 22)**



15 21 23 10 13 19 20 24 55 40 CR7 35 35 7M8 AA 3012A 3012D 18 58 738 50 139 53 32N 32N 32N 7M8 7M8 32N H H14 A321NEO (117.4 AA 2324 AA 2771 2744 AA 2817 1315 AA 869 1156 AA 2820 1247 AA 1159 245 AA 1213 3019A 3019I BDL PHL DEN CLT SEA SEA IAH **EWR** MIA SEA 44 24 32N 9 35 32N 14 738 139 32N AA 2839 1277 32N 7M8 7M8 7M8 32N 32N H H12 A321NEO (117.4) AA AA 2517 2841 AA 1116 466 AA 601 601 AA 1101 1253 140 AA 1315 AA 2849 1779 AA 1167 110 AA 2881 1543 BOS DCA TPA DFW MIA STL SAN RDU SLC PHX PHX 30 40 7M8 7M8 32N 738 7M8 738 32N CR9 319 H H10 A321NEO (117.4 AA 1426 2872 AA 242 1467 AA 2796 2796 AA 496 363 AA 1537 2382 AA 3825 3605 AA 2693 2381 AA 2387 LEX ROC BOS PDX MIA MIA DCA DCA RDU EWR MSO IND EWR MSP BO\$ 321 ³⁵ 29 55 7M8 25 110 30 25 25 7M8 _{AA} 3023A 3023E 738 738 321 32N H H8 A321NEO (117.4 AA 1356 2925 AA 2398 AA 2883 395 AA 2582 1045 AA 1110 1167 AA 2418 1030 AA 2780 1165 MCI SJU BWI SEA MCO DCA DEN SEA мсо мсо ABQ LGA DFW CLT |40 _{7M8} 14 55 E75 37 30 321 AA 1734 381 33 25 319 AA 3892 4120 15 55 7M8 35 15 738 738⁵⁴ 11 51 32N 12 319 H H6 A321NEO (117.4 AA 998 AA 896 AA 1573 2852 AA 2356 1354 AA 2499 DFW LGA MSP GCM ELPSTL RDU EWR DCA RDU DCA PWM BDL 738 36 7M8 ⁵² 55 7M8 56 36 26 319 ^{AA} 4059 3995 30 16 30 130 29 35 110 59 59 7M8 32N 32N 7M8 7M8 319 H H5 A321NEO (117.4) 345 AA 1980 1438 AA 1109 AA 1574 1312 AA 2327 1553 AA 2754 115 AA 2691 2499 AA 3649 3987 AA 1045 1270 ILM CMH SFO DCA BOS ATL ATL SJC AUS SNA D#W MCI PVD PWM SEA ABQ MIA 25 32N 39 19 7**M**8 59 39 321 7M8 738 CR7 H H4 A321NEO (117.4 AA 1637 AA 1052 272 1173 AA 1415 2208 AA 3059 3020 AA 1300 AA 3005A 3005D AA 2853 AA 2431 DFW DTW FN 10 AA CR7 44 39 CR7 AA 3082 3062 50 20 CR7 AA 3194 38 36 ER4 CR7 14 2 CR7 AA 4238 4138 17 10 CR7 AA 3015 2990 15 CR7 H H3A Canadair-700 (76.25) AA 3149 2986 AA 4085 4008 3342 3763 AVP BNA SGF LSE TYS DSM CLE OMA ALO DAY JAX JAX DSM DSM LNK LNK ER4³⁰ CR7⁵¹ ER4 55 39 26 CR7 AA 3102 3078 25 20 ER4 40 35 CR7 AA 4108 3906 16 CR7 ER4 AA 3147324 AA 3148 3223 AA 4154 4018 AA 3406 3899 AA 3906 3673 BNA IND TVC BWI MSN FAR GRB BMI COU LAN SUX TYS LSE MHT ERI COU CWA MSN 34 19 CR7 55 CR7 H H1B Canadair-700 (76 25) CR7 AA 3272 3198 CR7 AA 3534 CRJ ER4 ER4 AA 3624 3924 AA 3347 3735 AA 3071 3012 AA 3130 3122 009A 3009F CLE COU YUL CHO OKC IND MLI 32 CR7 26 1 CR7 55 45 CR7 13 ...CR7 19 11 CR7 AA 3137 3049 H H1A Canadair-700 (76 25 CR7 ER4 AA 3448 3474 AA 3972 3904 AA 4214 3389 105 29**6**2 SGF ABE TOL CVG JLN CAE CAE DTW FNT CVG DBQ BNA TYS 1 ER4 50 14 CR7 AA 3088 3055 7 49 ER4 10 55 ER4 _{AA} 4235 3547 39 15 CRJ AA 3111 3119 31 CRJ AA 3115 311 59 45 G G1B Canadair-700 (76 25) CR7 ER4 ER4 ER4 AA 3533 3855 AA 3535 4238 AA 3732 3692 AA 3899 FNT IND CMI RST MQT DSM MSN MSN BNA ALO CMI JLN AZO CID

SOURCE: Ricondo & Associates, Inc., December 2019. **EXHIBIT 1-4 (9 OF 22)**



8 17 19 21 23 24 12 13 15 16 20 22 -9 25 ER4 ER4 50 10 55 ER4 AA 3913 4205 57 38 ER4 140 25 ER4 CR7 AA 3601 358 ER4 ER4 ER4 G G1A Canadair-700 (76.25) AA 41074087 AA 3382 3893 AA 4163 3696 AA 4167 3541 4219 4197 FWA AVP LEX AZO ORI DBQ CAK MSN DBQ MHK MI CID CVVA ER4 25 19 (ER4 ^{AA} 3643 4045 23 21 ER4 CR7 29 ER4 ER4 20 51 4 ER4 CR7 ER4 G G3 Canadair-700 (76.25) AA 3580 3584 AA 4106 4110 AA 3364 4216 AA 3896 3590 AA 4072 3387 3857 4104 EVV CWA SCE DLH CHS CHS ORF SUX DBQ dMI CID MLI CAK PIA LIT EVV 20 9 50 ER4 ER4 ER4 CRJ ER4 ER4 ER4 G G5 Canadair-700 (76.25) 4076 AA 3699 AA 3134 3115 AA 3651 3640 AA 3600 3532 AA 3755 3478 4153 3624 3387 4102 LSE GRR LAN MKE ICT CWASDF ATW TOL ATW MHK FSD dID 4 47 ER4 7 46 ER4 52 35 ER4 119 ER4 17 AAER4 53 45 ER4 37 ER4 10 ER4 20 ER4 AA 3764 364 ER4 G G7 Canadair-700 (76.25) AA 3343 3450 AA 3587 3737 AA 4041 3492 ABE MLI AA 4018 3745 AA 3395 3738 3641 3589 4114 340 3369 4052 CVG GSO CVG SUX AZO ABE FAR CW/ BMI HSV AZO CVG BMI |21 _{ER4} -14 55 ER4 25 C ER4 AA 4123 3518 |6 ER4 ER4 ER4 ER4 G G9 Canadair-700 (76 25) AA 3370 3958 AA 3711 3813 AA 3474 3466 AA 3603 4167 вмі CMI CID CMI JLN SGF SDF EVVEVV BHM CID DSM GRR 1¹⁰ 32N 1²⁴ 7M8 -5 55 7M8 59 57 32N 50 30 321 110 42 121 45 25 738 AA 1637 2817 319 32X 32N G G11 A321NEO (117.4 AA 2285 AA 2776 1384 AA 2805 660 3006A 3006D 2429 AA 2642 2798 AA 2680 1073 AA 3481 3997 AA 1680 FLL FLL SAN STL LAX BDL BZN PIT SNA SNA SFO JAX LAX CLT DFW I¹⁹ 7M8 36 25 ER4 AA 4237 3629 33 321 29 33 21 32N 13 319 20 134 24 738 7M8 32N G G13 A321NEO (117.4 AA 1510 496 AA 2180 527 AA 1300 122 AA 2614 1304 AA 122 796 AA 1486 1582 AA 4095 3780 DFW LGA MSP CLT MSP CLE RST |²⁰_{7M8} [≁]CR7⁵⁰ 7 22 ER4 738 53 50 7M8 7M8 7M8 ER4 32N G G15 A321NEO (117.4 AA 1710 2738 AA 1294 AA 3014A 3014 AA 3462 3858 AA 998 2080 AA 4090 4180 AA 3162 2989 AA 2298 116 PIA HSV RIC ASE OAK OAK AVP DFW MSP CLT PDX DEN СМІ ONT ONT MSY DFW [¹⁸₇₃₈] 58 33 ER4 37 17 319 AA 3358 4025 30 122 48 129 32N 32N 7M8` 32N 32N G G17 A321NEO (117.4) AA 2184 2409 AA 2634 AA 2812 AA 2590 1**4**9 AA 381 2857 3015A 3015D SNA SNA ONT PHX LGA DFW ATL STL SFO 23 59 32X 52 10 50 32N 129 319 AA 2897 1585 7M8 7M8` ÇRJ 7M8 32N G G16 A321NEO (117.4 AA 2098 2470 AA 2300 AA 222 AA 1470 1022 AA 2452 2611 AA 2841 LGA PIT STL DEN MCI MCO DFW 4549 32N AA # CLT 10 10 7M8 ^{AA} 3013A 3013D 59 38 50 22 124 ER4 32N 32N 7M8 321 7M8 G G14 A321NEO (117.4) 4061 2486 AA 2338 2411 AA 295 294 AA 1160 1221 AA 2095 1106 MSN LGA LGA FLL FUL DEN BO\$ LAX PHL DFW RNO MCO 30 2. 319 3349 3812 |²⁰32N| 15 (319 AA 3331 3880 9 53 ER4 AA 3813 3462 20 59 7M8 ^{AA} 3025A 30 15 20 1 _{AA}7M8 116 30 321 321 7M8 G G12 A321NEO (117.4 AA 140 2302 AA 2303 358 AA 228 2839 AA 363 2882 IAH ELP SEA DĦW MIA PHX TOL AVP BOS DCA EWR ALB

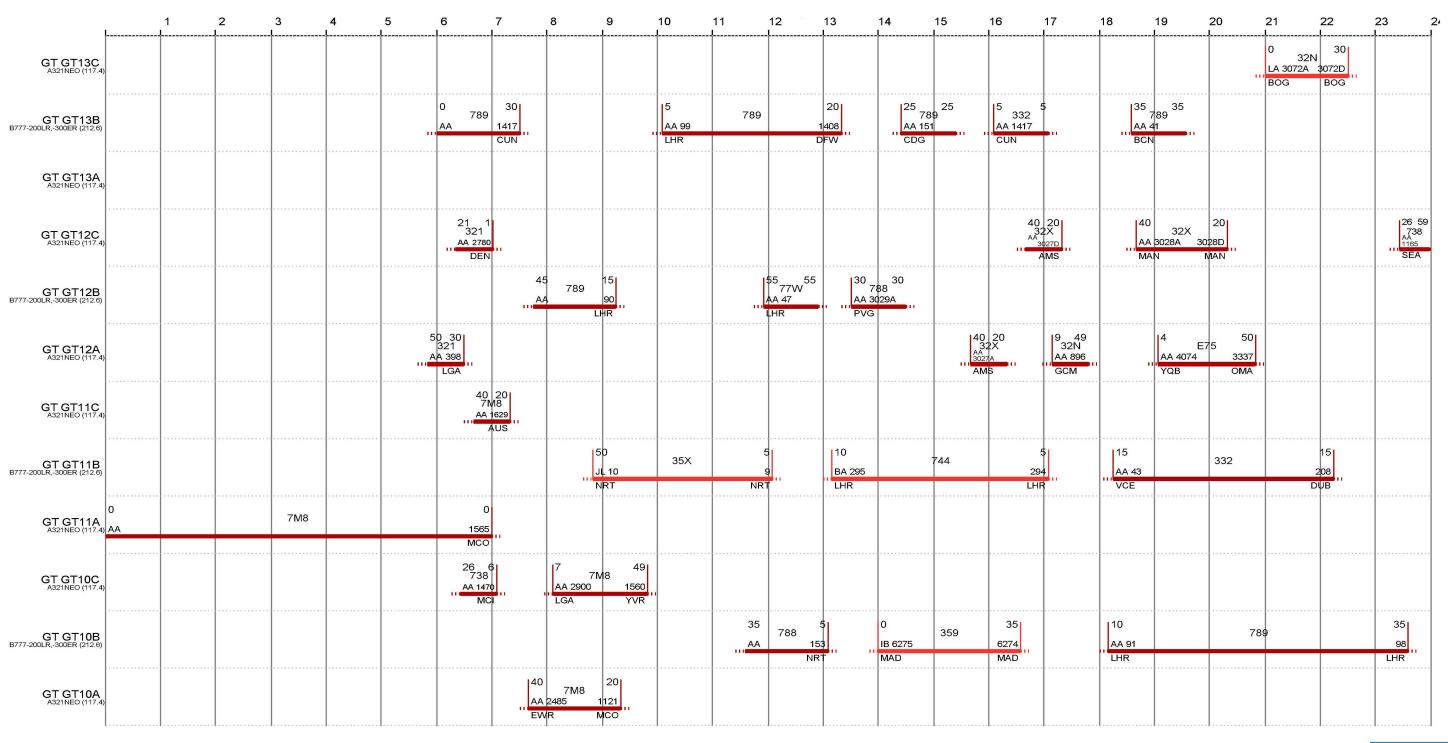
EXHIBIT 1-4 (10 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (10) Plotted: Nov 4, 2020, 06:42PM

SOURCE: Ricondo & Associates, Inc., December 2019.





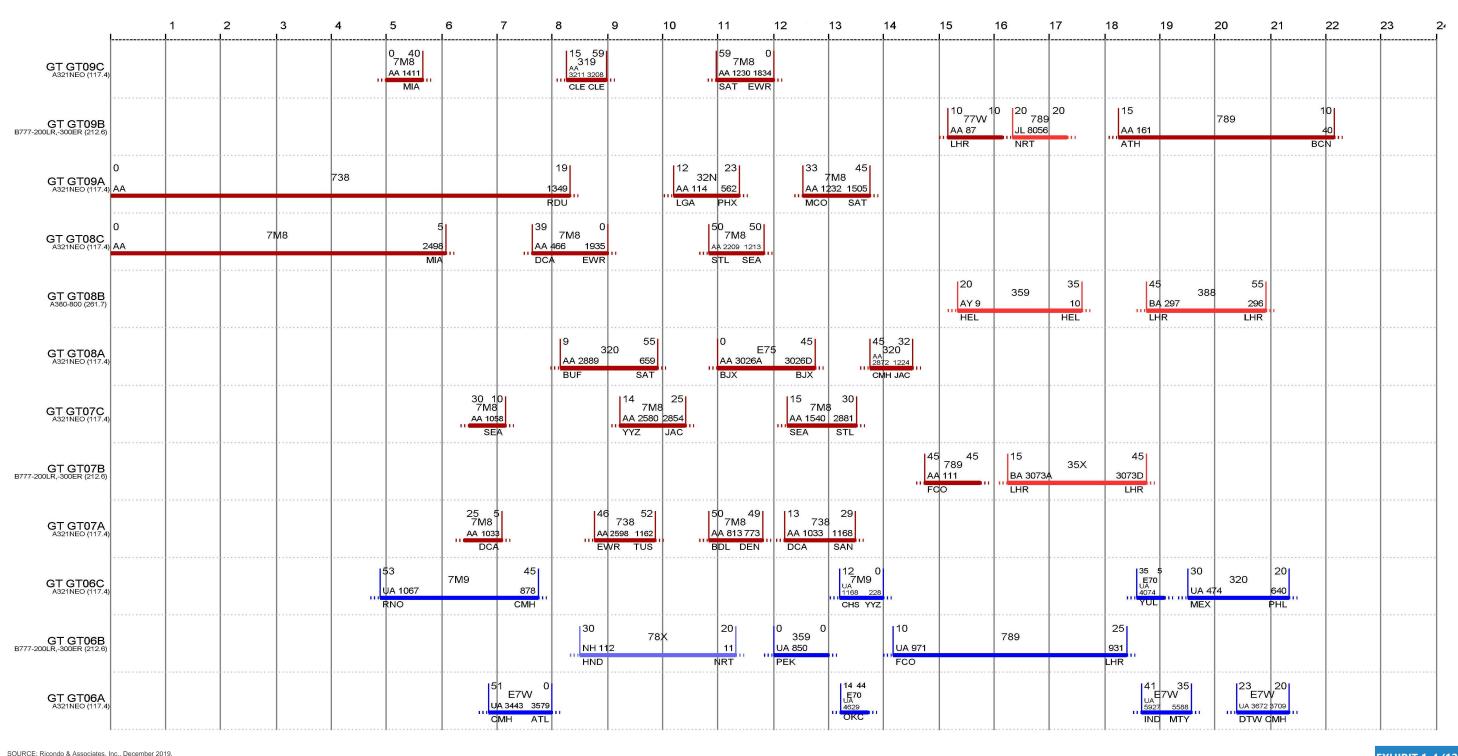
SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (11 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (11) Plotted: Nov 4, 2020, 06:42PM





OURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (12 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (12) Plotted: Nov 4, 2020, 06:42PM



15 20 21 23 24 13 19 30 15 E7W 6 41 E7W 25 55 E7W GT GT05C |¹⁵ 78X| 45 30||36 50 359 359 359 GT GT05B B777-200LR,-300ER (212.6) 944 UA 2039 592 881 UA 836 UA 844 45 35 E7W _{UA} 3559 3632 E70 GT GT05A A321NEO (117.4 A 5157 5066 CR5 50 11 55 CR9 39 35 E7W UA 5822 5968 1 50 CR5 10 CR9 25 20 ... CR5 38 ER UA 4354 18 E7W CRJ GT GT04 A321NEO (117.4 UA 3834 3790 UA 3956 3926 UA 3737 3688 JA 3899 3826 1538 4582 TUL QID MCI SYR RDU MT↓ мов мов CR5 52 0 55 E7W UA 3043A 3043D 45 15 E7W UA 5518 5 45 738 15 CR5 7**M**9 CRJ GT GT03 CM 228 229 UA 5577 5041 UA 5109 5808 UA 5841 5118 LAS XNA MIKG CMIX FNT TUL DLH PTY BDL BDL 5 45 CRJ 20 0 739 55 25 30 50 35 CR9 CRJ E7W 25 35 CRJ UA 4832 3788 CRJ CRJ GT GT02 A321NEO (117,4 4251 UA 5338 5070 5054 4585 UA 4838 3810 UA 2043 UA 5069 UA 4540 UA 4483 PIA CWA YUL EAU PAH ¢gi cgi AZO |14 _{CRJ}| T CR5 50 10 55 CRJ UA 3810 3911 14 44 E7W 15 55 738 UA 3056A 45 25 3 €7W 40 CR5 CRJ CRJ GT GT01 A321NEO (117.4 CRJ UA 4877 3768 UA 3767 3893 UA 3819 3816 UA 3924 4818 UA 5896 5061 UA 5992 5602 MKE MBJ 10 CRJ 10 CR5 CR5 CRJ CR7 CRJ CRJ B B6 A321NEO (117.4 UA 5137 5072 UA 3791 4820 UA 3865 4841 UA 5399 5087 UA 3803 3823 UA 3863 3912 5082 5361 UA 3962 4874 ATW HSV MKG BHM AZO |²⁰CR9| 738 44 19 35 CRJ 30 0 30 CR5 UA 3894 CRJ CRJ UA 3826 3853 E7W CRJ CRJ B B7 B757-200W-300W (135 UA 211 UA 5043 5547 UA 3931 3877 UA 3816 4864 UA 4511 4513 UA 3035A 3035D UA 3836 4813 CHS SAT YYZ CKB XNA 59 35 15 738 UA 1825 25 CRJ CR5 ÇRJ E7W CR5 CR5 B B8 A321NEO (117.4 4474 UA 4386 4078 UA 3827 3906 UA 3783 3882 UA 5652 CRW FAR CR5⁴⁰ 49 30 CRJ CRJ 55 40 ER4 40 59 3 45 ...CR5 CRJ CR9 CR5 ERJ B B9 UA 4851 3913 UA 4848 4830 UA 4233 LIA 4575 4574 IIA 5887 5146 LIA 4770 4697 EWA AVI STL ELP MKE SPI CWA ABE CHA COU LNK 25 (CR5 UA 5085 545 52 27 ER4 UA 4725 4691 35 20 129 CR5 CR5 UA UA 4043 CR9 ER4 ER4 B B10 A321NEO (117.4 4723 UA 4564 4541 3984 UA 3842 4851 UA 472 UA 4234 UA 4612 4709 STL MEM GSP

SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (13 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (13) Plotted: Nov 4, 2020, 06:43PM



15 17 22 23 24 19 20 21 5 55 319 UA 5742 5654 50 30 CRJ 140 CR5 CRJ 320 CRJ ER4 CRJ B B11 A321NEO (117.4 A 3922 3841 UA 3942 3878 UA 366 734 UA 3869 4847 UA 4743 4729 UA 5059 5049 GSФ AZO GRB MSN SCE GRB ¢RJ ⁴⁰ CRJ 50 10 _{UA} 739 39 40 CR7 UA 3817 4800 CRJ 55 25 5 738 33 36 13 CR5 7MX B B12 A321NEO (117.4 UA 305 UA 3762 4811 UA 3933 4856 UA 478 2015 JA 4855 3944 UA 5493 5673 DEN MCO MCO 30 59 ¢RJ CRJ CRJ CRJ ER4 ERJ BB14 B757-200W-300W (135) UA 4808 3904 UA 3906 4865 UA 4758 4657 UA 3923 3964 UA 4205 LEX SCE LNK FAR SBN LAN EVV 10 50 59 CRJ **ERJ** CRJ B B16B A321NEO (117.4) UA 4015 4265 UA 5752 UA 3833 3885 MKE RST MSN LIT 359 789 BB16W B777-200LR,-300ER (212.6) UA 2291 LAX UA 1403 970 1846 SEA 1²⁵ 7M9 30 CRJ ERJ B B16A A321NEO (117,4 4083 UA 2225 2056 UA 3891 3769 UA 4062 DAY ATW AUS DTW 23 1 E7W 35 12 30 150 Z . 45| |55 56 CRJ E70 UA 4219 CR7 CRJ ¢ĸJ CR7 B B17 A321NEO (117.4 UA 3898 4866 UA 3764 4871 UA 3915 4872 UA 5039 5108 UA 221 1953 UA 3765 3928 3729 3498 CVG IND 4762 4608 CAE CHA ATW CHO CR5 38 51 ER4 16 CR5 22 (CR9 UA 5750 5969 59 CR5 CR5 ER4 CRJ BB18 Embraer-170 (85.33) ERJ CR9 3939 UA 4644 4795 UA 4876 UA 3937 4869 DAY PVD MLI XNA CRW CRW FWA LNK MSN SCE |12 _{CRJ}| 10 45 58 55 5 ... E70 50 CRJ CR9 CRJ CR5 ER. CR9 B B19 4522 5855 ΨA 4025 4243 UA 3785 3888 UA 3928 3781 UA 4514 UA 3825 4812 UA 5292 5136 ND STL MKE MEM CAE 035 UA 5121 ا 55 E70 E70 48 50 E7W E7b CRJ CR5 ER CR5 B B20 4405 UA 3948 3917 UA 5445 5458 UA 4825 3929 UA 3782 3900 UA 4812 3839 UA 3871 3845 UIN MBS 19 CRJ UA 5360 5110 12 __CR5 59 CR5 B B21 Embraer-170 (8F 2-ERJ E7W E70 ER4 CRJ E7W 4289 UA 3629 3400 UA 4665 UA 4610 4768 UA 3799 3933 4629 IA 3946 3935 UA 3553 344 DCA ATL UIN LAN HSV FSD DTW ORF cbu ERI 158 CR5 |42|_{E7W} 30 20 E7W UA 3051A 3051D 35 45 113 59 CR9 E70 E70 **₽**70 B B22 4527 UA 4103 4079 UA 4677 4787 UA 4611 UA 3775 3955 UA 3624 3636 SAV RAP RDU BIL PNS ICT MSP BUF

EXHIBIT 1-4 (14 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (14) Plotted: Nov 4, 2020, 06:43PM



20 21 23 24 74 40 40 CR7 3867 CR7 50 [10 E7W] 45 E70 UA 4601 E70 UA 4325 B B23 Embraer-170 (85.33) ERJ UA 3905 3786 UA 3969 4245 4746 UA 4798 4772 СМН CLE MKE TVC COU LAN 18 45 E7W C C10C Embraer-170 (85.33) UA 5741 5967 30 30 50 25 37 359 UA 532 859 789 UA 2265 2243 788 UA 278 359 359 C C10B B777-200LR,-300ER (212.6) 359 359 789 UA 682 775 UA 636 UA 733 UA 1961 750 UA 1611 DEN DEN DEN LAX SEA EWR DEN DEN 51 55 E7W UA 3687 3677 10 50 E7W C C10A Embraer-170 (85.33) 23 30 CRJ 20 10 E7W UA 5677 538 E70 C C16C Embraer-170 (85.33 UA 3852 3886 CHO CHO UA 5045 5089 MBS FWA 15 20 35 359 UA 1259 1126 UA 32 35 789 789 788 C C16B B777-200LR,-300ER (212.6) UA 680 SFO UA UA 1989 204 DEN 15 20 CRJ UA 3903 3875 11 E70 15 E7W C C16A Embraer-170 (85.33) UA 3860 4867 UA 5921 5336 [E70³⁷] CRJ E70 UA 3839 C C18C Embraer-170 (85.33) 4863 UA 5147 5141 25 30 359 UA 426 499 40 50 359 UA 624 1742 UA 1872 359 359 788 C C18B B777-200LR,-300ER (212.6) UA 1962 403 1836 UA 153 DEN 59 CRJ E7W C C18A Embraer-170 (85.33 UA 3795 3890 UA 5995 37 35 E70 6 0 E7W _{UA} 3475 3740 E70 E7V UA 4755 4717 UA 3454 E7W CR9 C C20C Embraer-170 (85.33 UA 4709 4765 UA 4504 4491 DCA LEX STL CHS 33 25 78X UA 639 248 C C20B B777-200,-300 (200) 78X 78X 1708 531 UA 1161 UA 583

SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (15 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (15) Plotted: Nov 4, 2020, 06:43PM

SFO

Terminal Area Plan and Air Traffic Procedures EA

Simulation Data Package - With Project Full Build

LAX



15 17 19 23 24 20 21 CRJ CR5 CR5 C C20A Embraer-170 (85 33) CRJ E7**0** UA 5222 5755 UA 3901 4815 UA 5570 5088 UA 4806 3869 UA 4466 CWA TV¢ GRR XNA G\$P 20 CR7 139 7MX E70 UA 4518 4554 7MX **ERJ** E7W E70 C C22 A321NEO (117.4 UA 1562 748 UA 977 2133 UA 4126 4367 UA 3485 3613 UA 3889 3789 CLE CMH CAE C C24A B777-200,-300 (200) E7W 50 55 50 CRJ 55 E7W CR9 CR5 7MX C C24 UA 1503 UA 3719 3450 1166 UA 3830 3872 UA 3895 3837 UA 1564 1641 037A 3037D UA 4772 4603 LGA ¢ak atw MKE HPN BOS SEA TLH TLH СМН CID MLI 55 50 CR7 54 54 E7W 43 40 E7W 14 CR5 E70 CRJ ERJ E7W C C26 Embraer-170 (85.33) UA 5156 UA 4301 5480 4348 UA 4115 4068 UA 5487 5496 UA 5040 5669 UA 3648 3693 UA 3718 3718 MSN MKG IND ORF TYS MSN TYS LNK BNA CVG TYS SAT 57 52 E7W 20 1 E7W UA 5438 58 12 45 115 25 C C28 Embraer-170 (85 00) E7W **ERJ** CRJ ERJ CRJ UA 3486 3612 UA 4107 5650 4204 UA 5861 5307 269 5596 UA 4072 4072 PVD SAV GRR MCI ABQ YHZ MSN IND TYS BNA CRJ 55 1 CRJ 50 50 20 E70 UA 3984 44 35 E7W _{UA} 5634 5477 45 115 20 50 E70 UA 3965 CVG C C30 Embraer-170 (85.33) E70 E70 CR9 UA 4790 4684 UA 4017 UA 4314 3997 UA 5128 5143 UA 5507 5904 UA 3935 3764 GRB FAR [10 CR5] 59 CR5 7MX C C31 Embraer-170 (85.33) CR9 UA 1087 2081 UA 449 UA 3880 4834 789 45 50 20 788 C C29W 789 UA 3054 3054D UA 958 UA 613 2173 14 59 CR9 E7W 7MX 7MX E70 C C29 UA 3691 3755 UA 2004 578 UA 597 440 UA 4747 4667 UA 5758 CR9 20 40 33 CRJ UA 5795 5062 10 40 58 28 E70 23 CRJ 30 12 ...E7W E7W CR5 CR5 E7W C C27 UA 5661 5641 UA 5081 5698 UA 4557 4536 IIA 4847 4809 UA 4803 3876 ATW AVP RDU EUG BHM DTW RIC EAU LNK CAK LWB 5 50 E70 UA 4417 4018 48 40 E70 _{UA} 4253 CRJ⁴⁵ 30 114 E7W CR9 E7W CRJ E70 C C25 A321NEO (117.4 UA 4151 4114 UA 5702 5385 UA 3943 3849 UA 5906 5520 UA 3823 3843 UA 5326 5428 BNA ABQ MSP CAK DAY IND

EXHIBIT 1-4 (16 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (16) Plotted: Nov 4, 2020, 06:43PM



15 19 21 23 24 10 20 55 45 E7W 56 55 E70 CR9 E7W CR5 E70 E70 C C23 A321NEO (117.4 5778 UA 3807 4837 UA 5989 5964 UA 4696 4668 UA 4735 4792 UA 3801 4876 034A 3034D DSM MKE BNA MLI ICT ROA 57W 39 10 319 CRJ UA 5272 5979 E7W E7W E7W E7W C C21 A321NEO (117.4) UA 5721 UA 4397 UA 3997 4020 UA 3623 3737 UA 5218 5705 UA 3499 3543 UA 238 1606 DCA LGA _{JA}319 ₽7W E7W E7W E7W E70 739 E7W E7W 738 C C19B A321NEO (117.4) UA 713 2170 UA 3726 UA 4319 441 UA 765 913 UA 4251 4315 CVG MSP STL OKC BNA FN PWM BOS PIT LGA BGR ALB DFW GRR 30 0 E7W 25 30 E7W 5 50 ...E70 25 5 7MX E70 E7W E7W . E70 **Ė**70 E70 C C19A UA 5631 5681 UA 5125 5695 UA 2197 4693 UA 5953 5587 UA 3681 3707 SLC MKE CLT СМН RDU JAX GSP MEM MSN YUL OGS I¹⁸ 739 |⁵ 738 ⁵⁹ 45 5 45 CR9 E7W . E7W CR5 E70 E70 E7W C C17 A321NEO (117.4) UA UA 3060A 4284 UA 3484 3560 4673 UA 3804 3787 UA 3539 UA 1900 238 UA 4695 3480 cos crw LAS STL BNA LGA LNK LEX CVG OMA DCA SAN 45 30 E7W 45 50 30 7MX 17 25 25 7MX CR5 CR9 CR9 E70 E70 UA 4673 C C15 4174 UA 4734 SDF UA 1201 493 UA 5208 5957 UA 4534 4578 UA 2029 GSP TLH TLH MSO CLE SFO PIT DCA 1¹⁶ 7MX 50 30 CR5 UA # 54 CRJ C C11 B757-200W-300W (135) E7W Ĕ7W E70 CR9 CR7 3722 UA 4244 4017 UA 4648 4644 UA 4520 4520 UA 3846 4842 UA 2015 1269 EWR PIT MSN DLH MBS CAK 1¹⁵ 738 43 25 E7W UA 5283 5732 50 11 51 7MX CR9 E7W CR9 319 E7b S1 S114 A321NEO (117.4) UA UA 3041A 3041D UA 3065A 3065D 4071 5656 UA 4315 UA 4593 4552 UA 4660 4681 UA 1664 CLT BDL ONT ONT 120 9 17 2 ...ER4 55 10 40 110 7MX 7M8 7M9 7M9 E7W **CRJ** 7MX CM 233 UA 3400 3704 CM 3078A 3078D UA 5859 5042 UA 1667 236 4727 4672 UA 272 810 1218 PIA FSD PTY 25 5 CRJ 738 7M9 7MX 7MX S1 S112 A321NEO (117.4) UA 3824 4822 UA 4676 2200 UA 3064A 3064D UA 1655 613 UA 830 3949 3774 30J E70 58 52 ...E7W 25 36 20 50 E70 UA 4685 22 59 S1 S111 Embraer-170 (95 3 CR9 E7W CR9 CR5 CR9 CRJ E70 UA 5829 5642 4824 UA 3859 3834 UA 5033 5142 UA 5511 5761 UA 482 UA 4608 4744 STL DTW ATL ASE COU MEM HPN ILM ĎΤW DTW S1 S110C

EXHIBIT 1-4 (17 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (17) Plotted: Nov 4, 2020, 06:43PM



23 25 50 45 78X 359 788 S1 S110B B777-200LR,-300ER (212.6) 895 843 UA 348 UA 119 LH 432 433 IAD FRA OGG EDI FRA S1 S110A A321NEO (117.4) S1 S109C A321NEO (117.4) 20 ₇₈₉ 20 25 55 30 78X UA 616 222 359 78X S1 S109B B777-200LR,-300ER (212.6) UA 218 UA 929 UA 336 407 UA 909 LH 434 435 219 MUC S1 S109A S1 S108C A321NEO (117 4) 15 45 25 25 359 UA 254 30 55 359 359 359 S1 S108B B777-200LR,-300ER (212.6) 66 UA 835 UA 2200 851 OS 65 3062D S1 S108A A321NEO (117.4) 13 10 319 UA 3048A 3048D 59 319 4 CR5 UA 3784 3805 20 30 E70 UA 4662 4660 S1 S107C A321NEO (117.4) UA 2158 2341 788 45 388 788 S1 S107B A380-800 (261.7) UA 3062A LH 430 431 53 55 7M9 45 18 0 E7W E70 S1 S107A UA 4230 4301 A 2042 1420 ΦMA BOS YUL 45 30 E7W UA 3042A 3042D 50 50 7M9 55 35 7M9 _{UA} 3063A 55 738 UA 776 1100 7MX S1 S106C A321NEO (117.4) 2347 UA 1029 DFW

EXHIBIT 1-4 (18 OF 22)



19 20 21 23 24 78X 45 20 78X S1 S106B B777-200LR,-300ER (212.6) UA 896 UA 906 907 FRA 7MX 45 3 43 7M9 10 45 E70 10 10 E7W UA 3049A 3049E 319 45 7MX S1 S106A A321NEO (117.4 UA 566 1723 1996 UA 5365 5946 UA 2155 UA 745 PDX BWI 50 11 ... 320 25 7MX 7MX E70 S1 S105C A321NEO (117.4) 992 UA 635 2246 UA 486 GEG DLH PWM BWI AVL TVC 789 UA 928 25 20 S1 S105B B777-200LR,-300ER (212.6) 77W 789 NH 12 111 NZ 26 27 HND AKL 53 50 E7W 7MX 739 S1 S105A 2192 UA 2142 301 UA 214 UA 3608 3591 IND DCA МСО \$FO SAN BOS 23 45 10 35 E70 E70 7MX S1 S104C UA 1010 SAN 2244 UA 4471 4275 UA 4348 4052 LIT CID SFO MLI 359 UA 973 359 77W S1 S104B B777-200LR,-300ER (212.6) UA 953 LX 8 ZRH ZRH 30 15 E7W UA 3606 3653 20 0 739 12 52 7MX 7MX S1 S104A A321NEO (117.4) UA 2246 638 UA 1504 45 35 E7W UA 5567 5807 136 10 12 739 UA 788 515 11 E7W 738 UA 651 312 ₹MX 7MX S1 S103C A321NEO (117.4) UA 1854 2176 UA 605 769 5 779 LH 436 45 30 15 359 S1 S103B B777-200LR,-300ER (212.6) LH 437 952 MUC 145 E70 35 15 C E7W 738 738 /MX S1 S103A A321NEO (117.4) 359 UA 2189 1482 UA 1924 1816 LAS MEM ALB MEX †MX 40| 10 58 738 _{UA} 2372 2205 15 20 45 7MX E7W 7MX S1 S102C A321NEO (117.4) 212 5566 UA 1800 UA 754 2193 UA 1160 1280 BJX YVR DFW

SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (19 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (19) Plotted: Nov 4, 2020, 06:44PM



15 19 22 23 24 20 21 50 35 789 78X 78X S1 S102B B777-200LR,-300ER (212.6) UA 908 UA 882 UA AMS 20 1 738 UA 859 166 34 35 E7W UA 3519 3629 30 1 E7W 20 738 25 5 739 50 E70 ₹MX 738 7MX S1 S102A UA 654 UA 2001 1198 UA 1994 547 UA 1194 1525 UA 3773 3831 ALB CUN EWR CUI 50 30 739 59 **₽**7W 7MX 7MX 738 UA 1143 1547 739 MX S1 S101C UA 2177 UA 5844 UA 714 UA 203 UA 233 1659 UA 397 241 SAT YYZ BOS ROC SEA MIA MEX |²⁰ ₃₅₉ . 20 35 78X 359 S1 S101B B777-200LR,-300ER (212.6) UA 986 UA 1995 CDG 28 30 E7W 55 35 7MX E70 7MX 7MX S1 S101A UA 2116 UA 4829 3785 ŲA 1897 UA 449 UA 5204 5393 CHS OKC 50 30 7MX 50 122 43 7MX 738 738 E70 7M9 320 7MX CR7 UA 5038 S2 S224 A321NEO (117,4 UA 268 572 UA 2194 UA 570 1590 UA 586 1634 UA 2202 2406 UA 3920 3793 UA 473 1113 SFO BUF DSM ROC DCA FSD HPI BWI SFO MSN CLE 35 3 CR5 UA 3778 486 50 30 7MX 35 59 739 7MX 739 CR9 CR9 7MX E/W S2 S223 A321NEO (117.4 UA 707 2267 UA 301 2297 UA 785 UA 4578 4518 UA 683 599 UA 3500 566 UA 5544 5466 MTJ EV/R RDU DCA I¹⁰ CRJ ^J 28 8 739 UA 390 E7W 738 739 ER4 CR9 CRJ **S2 S222** A321NEO (117.4 UA 1845 1475 UA 4778 4692 UA 2395 2231 3927 UA 4576 4553 UA 3861 UA 4830 3892 DCA LGA 43 20 30 CR9 58 35 CR9 30 0 27 CR9 18 CR9 0 35 CR9 7 37 CR9 AC 8039 CR9 CRJ S2 S221 Embraer-170 /95 00 CR9 CR9 AC 8040 YVR VA 5523 5810 AC 3079A 3079D 7679 7682 UA 3958 3806 7611 7612 8038 8041 7527 7670 7509 7600 YYZ YYZ YULYUL 35 43 20 CR9 CR9 AC 7673 7680 3 40 45 13 55 223 AC 503 504 59 24 739 739 CR9 CR9 CR9 CR9 CR9 CR9 319 S2 S220 A321NEO (117.4) 7598 JA 578 586 UA 790 442 UA 4560 4515 AC 515 7681 7690 YUL YYZ YYZ 32 25 CR9 UA 4509 4511 30 59 7MX 7MX 738 738 739 7MX 7MX 320 319 223 S2 S219 A321NEO (117.4) AC 500 2395 UA 588 1891 UA 1633 521 UA 330 288 UA 755 1195 UA 269 411 UA 1268 788 AC 7599 UA 2350 JA 1598 1444 YYZ ANC LAS DTW|STL SLC ALB BOS ORF LAX LAX DCA YUL 7MX 54| 25 35 7MX UA 599 269 136 35 25 59 13 738 738 7MX 739 739 738 7MX E7W S2 S218 A321NEO (117.4 UA 781 UA 531 588 UA 1953 1651 UA 2287 2220 UA 312 450 UA 2153 UA 552 UA 1544 1603 1250 CLE DCA BOS DEN DEN FLL LGA SEA IAD

EXHIBIT 1-4 (20 OF 22)

Ramp Charts

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\05-Gating\AutoCAD\TAP EA - Ramp Charts - WP Full Build_20200805.dwgLayout: Ramp Charts (20) Plotted: Nov 4, 2020, 06:44PM



15 23 10 13 16 19 20 21 24 59 7MX 739 CR5 738 738 CR9 7MX 7MX 738 739 S2 S217 A321NEO (117.4 UA 1719 UA 2133 635 UA 721 498 JA 679 246 UA 1180 518 UA 976 UA 661 LAX BWI мов мов IAD IAD ONT **EWR** 10 45 E70 48 28 7MX 26 35 738 UA 1464 2001 738 739 7MX 7MX 7MX 7MX 7MX S2 S216 A321NEO (117.4) UA UA 761 1266 374 UA 2385 656 UA 248 1502 UA 555 369 UA 563 1810 1146 UA 305 UA 298 UA 2131 BDL LGA LGA DEN 50 30 7MX 119 739 E7W 7MX 7MX 738 738 738 739 S2 S215 A321NEO (117.4 570 UA 1704 UA 1421 JA 2097 381 UA 5759 5590 UA 2081 UA 2209 2240 UA 1899 597 UA 2211 226 UA 1249 PHL LĠA ALB LAX BIL DCA ORF YVR BWI CLE SEA MCI PWM RDU 7MX 50 39 30 319 UA 519 1270 40 20 7MX 3₃₂₀ 50 19 39 10 30 59 738 738 739 7M9 319 S2 S214 A321NEO (117.4 UA 2166 UA 2184 679 UA 1850 2397 UA 2075 549 UA 656 509 UA 2404 994 UA 483 UA 693 UA 558 1436 1261 MCO DTW SLC EWR PDX PHX LGA RSW 7 47 7M9 320 320 7MX 7MX 7MX 7MX CRJ S2 S213 A321NEO (117 4 UA 1524 1683 UA 628 2097 UA 1728 541 UA 1126 743 UA 1568 UA 775 310 UA 1251 230 PHX LGA MSP BOS LAX BOS EWR FLL ABE CWA 738 ⁴¹ 1 ₃₂₀ ⁴⁶| 1 30 738 15 55 738 ^{UA} 3059A 9 30 | 41 37 50 30 41 7MX 319 738 739 7MX 319 S2 S212 A321NEO (117,4 UA 1279 2227 UA 490 1621 5364 UA 432 622 UA 1213 2212 UA 743 765 UA 1531 2204 UA 670 1186 EV/VR DEN M\$N CLE PDX BTV BTV LGA SMF LGA BNA YVR LGA LGA LA\$ SFA CHS MCO 24 6 319 UA 5958 5375 45 7 45 320 55 35 319 16 38 7MX 320 319 738 320 319 320 S2 S211 A321NEO (117.4 UA 1285 2306 UA 230 1128 UA 843 639 UA 1219 790 UA 1709 2346 UA 5854 5691 UA 3536 3518 UA 241 537 UA 2214 FAT SNA SNA BOS LGA DTW 15 | 125 7MX |¹⁶ ₇₃₈| 12 C E7W 50 320 15 55 319 CR7 320 320 319 320 7M9 S2 S210 A321NEO (117 4 UA 1605 2167 UA 2074 483 UA 619 558 UA 1660 725 UA 4597 4589 UA 515 2061 JA 3873 3874 UA 1574 2088 5274 5970 UA 370 556 UA 2284 203 3047A SEA ROC FAR ABE MSP BOI SYR ALB BDL DCA RNO 20 319 111 320 59 50 E7W 50 40 19 59 5 35 ᢅ_ωΕ7W ' E7W 319
UA UA 3618 3581 320 319 320 E70 UA 4774 738 CR5 S2 S209 A321 NEO (117.4 UA 206 476 UA 1023 UA 5996 5426 UA 741 418 UA 3941 1**4**96 1505 DCA DCA RAP DFW LGA AUS MCI MDT JAX JAX IGA PWM 20 40 320 320 50 26 320 7M9 319 319 320 320 7MX S2 S208 A321NEO (117,4 UA 995 1272 UA 3587 3675 UA 286 2075 UA 913 397 UA 692 692 UA 2283 1476 2046 UA 3442 3738 UA 2199 СМН SAN IND DCA MCI LGA DFW 7M9 50 5 57 319 12 (319 _{UA} 1505 191 57 37 319 120 27 1 ...CRJ 52 36 319 7MX 319 S2 S207 UA 637 742 UA 2129 2004 UA 1810 702 UA 640 1937 UA 658 UA 1778 2003 LAS RSW ICT YYZ MCI DCA ѕви мот SJC OLT BHM CLE STL SNA LAS 50 59 24 7MX 7MX CR5 319 7M9 320 ¢R5 7M9 319 S2 S206 A321NEO (117 4 UA 1979 624 UA 342 UA 2139 427 UA 2409 776 UA 609 1741 UA 3768 3860 JA 1444 2169 UA 518 1883 **UA 5056** BOS EWR EWR MYR DFW DSM мсф DCA FAR GSO DCA RØC SJC DLH

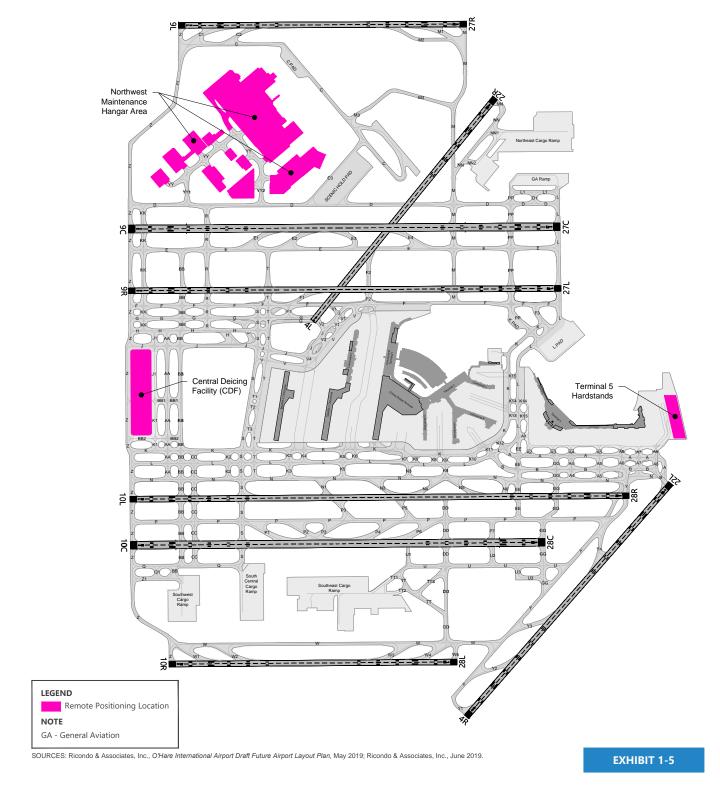
SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (21 OF 22)

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S2 S205 A321NEO (117.4)	14 UA 1938 DEN		7M9			30 1533 RDU		30 3907 DSM		19 43 2116 UA	319 5253 5955	111	319 1697 610	26 UA 16 ORF	319 0	1 114	4 1(738 UA 2046 620 OMA PHI	35 30 7M9 UA 582 1223 YYZ BOS	UA	319 1422 2183 A DLH	54 34 7M9 UA 789 BOS	
S2 S204 A321NEO (117.4)					20 0 7MX UA 1155 ATL		50 30 319 UA 393 LGA	55 55 CRJ JA 3934 4849 FSD SBN	20 7M UA 374 IAD	U/	H 11 1	3 7M9 7M9 373 436 373		4523	55 2 319 UA 387 2175 BTV MSN	1 111	6 7M9 UA 1658 18	11111	621 L	20 30 7M9 JA 439 2177 BOS RDU	11.6	9 7M9 A 277 EA
S2 S203 A321NEO (117.4)					20 0 7MX UA 1456 BDL	n no	48 5 7M9 JA 1662 2326 3UF TPA		2 7M9 287 YVR	UA 72		7M9 2406 2208	18 7M UA 1989 SMF	30 46 9 1994 U PHL TE	320 320 592 1160 A SNA	der odd	5 7M9 UA 1500 MCO			8 30 7M9 JA 2000 2000		M9 3 2504
S2 S202 A321NEO (117.4)					30 10 7M9 UA 814			1 55 7M9 _{UA 1967 632} DSM IAD	13 7M9 UA 547 201 YYZ JAG	the column	7	PHL F	0 0 CR5 A 3794 4852 SD ABE	CR5 UA # #	55 10 7M9 UA 1705 1588 CMH SMF	in n	9 0 7M9 JA 614 607 DFW SYR	7M9 UA 2003 5 RSW Y	VR PI	7M9 A 365 830 HL BUF		45 25 738 _{UA} 3038A OAK
S2 S201 A321NEO (117.4)					20 0 7M9 UA 2140 LGA	J30 UA 9 LAX		UA 2086	27M9 2185 BZN		45 7M9 1634 609	55 50 7M9 _{UA} 3058A 3058D TPA TPA	3 7M9 UA 905 YVR	11 11	52 5 7M9 JA 633 395 JCO SAN	UA 2		20 10 LCR5	28 319 UA 5357 YYC	9 5433 SLC		
- Unassigned																						

SOURCE: Ricondo & Associates, Inc., December 2019.

EXHIBIT 1-4 (22 OF 22)



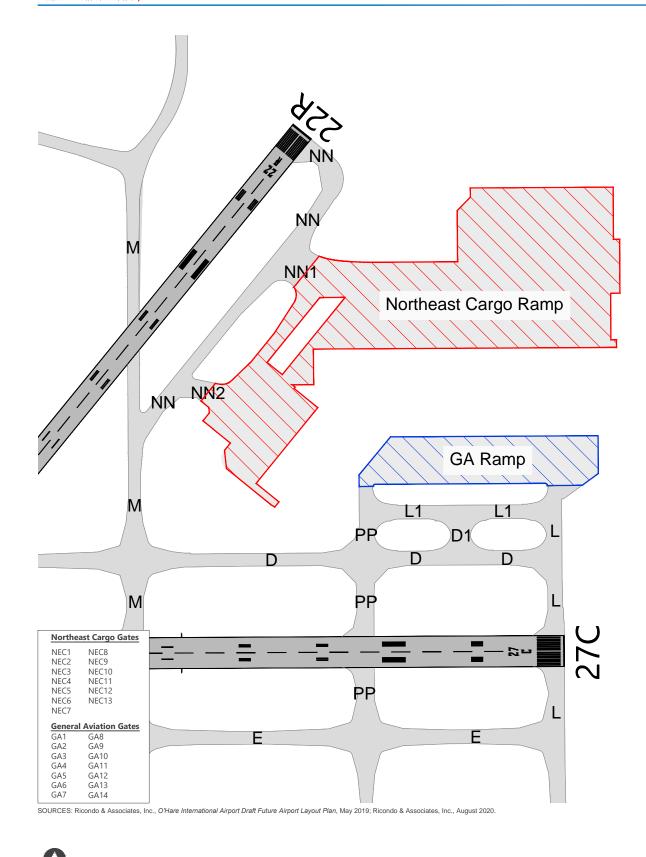
NORTH 0 2,500 ft.

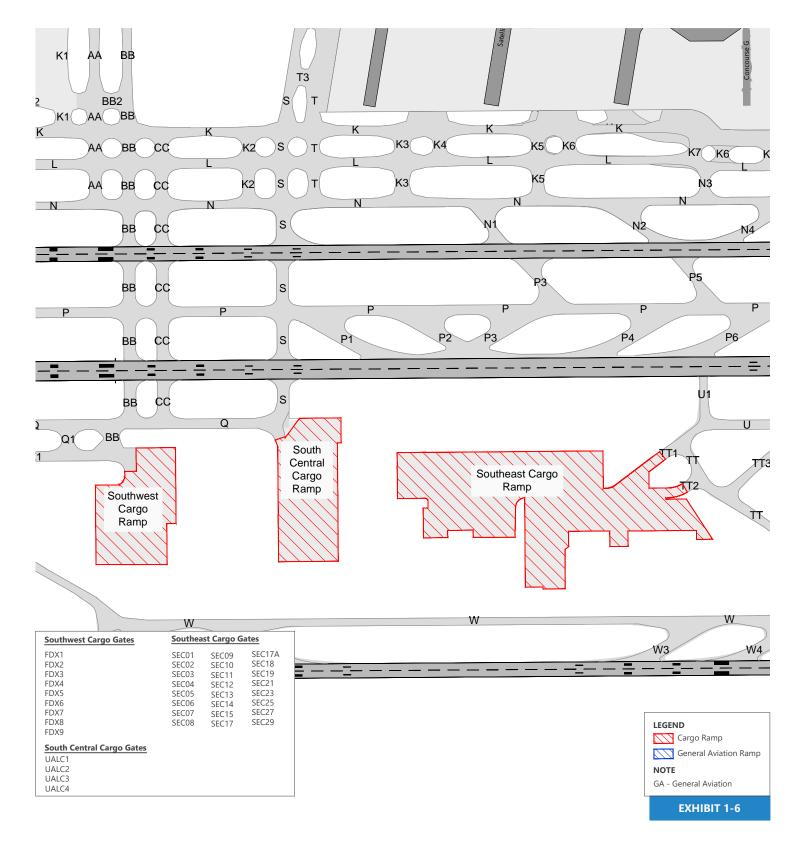
Repositioning Remote Locations

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\02-Airfield\AutoCAD\TAP EA - Repositioning Remote Locations.dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:16PM

JUNE 2022

D-631





General Aviation and Cargo Parking Areas

NORTH 0 Not To Scale

 $Drawing: P: Simulation | KORD_TAP_EA | Assumptions | 02-Airfield | AutoCAD| TAP_EA - GA \ and \ Cargo Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM | Average Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM | Average Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM | Average Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM | Average Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM | Average Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM | Average Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM | Average Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM | Average Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM | Average Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM | Average Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM | Average Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM | Average Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM | Average Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM | Average Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM | Average Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM | Average Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM | Average Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM | Average Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM | Average Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM | Average Parking Areas. dwgLayout: With Project - Full Build Plotted: Oct 30, 2020, 04:19PM$

1.6 Arrival Fixes by Departure Airport

Arrival fixes were assigned based on the location of the departure airport. **Exhibits 1-7** and **1-8** depict the arrival fix assignments for West Flow and East Flow, respectively.

1.7 Taxi Speeds

Taxi speeds were established for taxiways and aprons. **Exhibits 1-9** and **1-10** depict the taxi speeds for West Flow and East Flow, respectively.

1.8 Intersection Departure Procedures

Departures utilizing Runways 9R-27L and 10L-28R are encouraged to use intersection departure procedures whenever possible so that arrivals from the outboard runways (Runways 9L-27R, 9C-27C, 10C-28C, and 10R-28L) can taxi behind departing aircraft, reducing delay incurred by both arriving and departing aircraft. However, some departures cannot use intersection departure procedures due to runway length requirements. A subset of widebody⁷ operations that is representative of the characteristics of the operations that typically utilize the full length of the departure runway was restricted from using intersection departure procedures. This subset was defined based on the airline and the great circle distance⁸ from O'Hare to the destination airport. **Tables 1-2** and **1-3** detail the air carrier operations and cargo operations, respectively, that were in the DDFS and restricted from using intersection departures.

D-633

⁷ This refers to aircraft with a fuselage wide enough to accommodate two passenger aisles.

⁸ This is the shortest distance between two points on the surface of a sphere, measured along the surface of the sphere.





Arrival Fixes by Departure Airport
West Flow

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\04-Airspace\AutoCAD\KORD TAP EA - Arrival Fixes by Departure Airport.dwgLayout: WPFull_West Plotted: Oct 30, 2020, 04:22PM



NORTH 0 Not To Scale

Arrival Fixes by Departure Airport
East Flow

Drawing: P:\Simulation\KORD_TAP_EA\Assumptions\04-Airspace\AutoCAD\KORD TAP EA - Arrival Fixes by Departure Airport.dwgLayout: WPFull_East Plotted: Oct 30, 2020, 04:22PM